

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
13 January 2005 (13.01.2005)

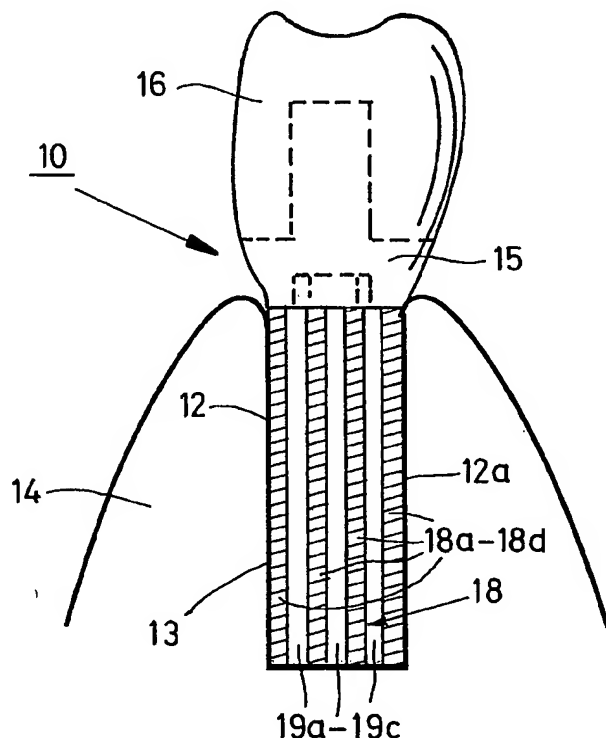
PCT

(10) International Publication Number  
**WO 2005/002462 A1**

- (51) International Patent Classification<sup>7</sup>: A61C 8/00, BRUGGENKATE, Christian, Michiel [NL/NL];  
A61B 17/86 Loevestein 38, NL-2352 KP Leiderdorp (NL).
- (21) International Application Number: PCT/EP2004/007058
- (22) International Filing Date: 28 June 2004 (28.06.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
03077039.0 30 June 2003 (30.06.2003) EP
- (71) Applicant (for all designated States except US): TEN  
BRUGGENKATE CHIRURGIE B.V. [NL/NL]; Lo-  
evestein 38, NL-2352 KP Leiderdorp (NL).
- (74) Agents: DOHMEN, Johannes, M., G. et al.; Algemeen  
Octrooi- en Merkenbureau, P.O. Box 645, NL-5600 AP  
Eindhoven (NL).
- (81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.
- (84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: INTRA-OSSEOUS IMPLANT



(57) Abstract: The invention relates to an intra-osseous implant for placement in bone of a human or animal body, which allows an accurate implant position at a desired depth into bone tissue, providing without losing a high degree of primary implant stability, comprising at least one intra-osseous part intended for placement in said bone tissue having an apical side and a cervical side, which part is provided on its circumferential surface with a thread running in the direction of the apical end and with one or more grooves extending in longitudinal direction and interrupting the screw thread into multiple interrupted screw thread parts serving as retention elements allowing the placement of the implant in longitudinal direction into said bone tissue but preventing the removal of the implant in opposite longitudinal direction of said bone and a support part present at said cervical side of said at least one intra-osseous part intended for supporting a prosthetic element.



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*